CoMPASS

Compact Multi-Purpose Advanced Stabilized System

Technical Data

System	
• Angular Coverage	
- Azimuth	N x 360˚
- Elevation	+35˚ to -120˚
3rd Generation FLIR	3-5 µm FPA 320 x 256 + MicroScan
• Fields of View	
- Narrow	0.61˚ x 0.46˚
- Medium	2˚ x 1.5˚
- Wide	13.7˚ x 10.2˚
	Electronic Zoom x2, x3
	Continuous Zoom (option)
• PIP- Picture In Picture	
TV Color or B/W	1/3 in, CCD Detector, 450-750 nm
• Fields of View	
- Narrow	0.7˚ x 0.52˚
	Continuous Zoom
- Wide	13.7˚ x 10.3˚
	Electronic Zoom x2, x3
• PIP- Picture In Picture	
Eyesafe Laser Rangefinder	Er: Glass, 1.54 µm, 1pps, 5pps bursts
• Operational Range	
- Minimum	100 m
- Maximum	20 km
Laser Target Illuminator	NVG Visible
• Spectral Bandwidth	830 nm
• Output Power	50 mW
• Range Capability	10 km
Laser Designator	Diode Pumped Advanced Technology
• Wavelength	1.064 µm
• Pulse Energy	80 mJ
• Pulse Repetition Rate	up to 20 pps
Video Output	NTSC or CCIR (RS-170 or PAL)
External Interface	MIL-STD-1553 BUS Interface or RS 422
Weight	
• Without Designator	< 35 kg
• With Designator	< 38 kg
Environmental Conditions	MIL-STD-810

Note: Parameters may be altered to comply with customer specifications. ELOP - ElectroOptics Industries Ltd., reserves the right to make such alterations in design, dimensions, specifications, and manufacture as are deemed necessary to ensure continual improvement.

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CoMPASS (UAVs) 03/04 ShOr 1000 V2

CoMPASS

Compact Multi-Purpose Advanced Stabilized System

for UAVs

ELOP's CoMPASS is a multi-sensor stabilized airborne system designed for day and night scanning, tracking, observation, range measurement, aiming and targeting (designation) of marine, ground and air targets.

CoMPASS- the Next Generation stabilized LOS reconnaissance solution for UAVs.

CoMPASS- part of the ELOP family of airborne stabilized battle proven payloads, used by the Israel Navy, Air Force, and other customers world-wide.

Withstands even the harshest of airborne environments

Typical CoMPASS Configuration:

- Stabilized Turret Assembly, including Main Electronic Unit with Autotracker
- External Interface with the Avionics system

This state-of-the-art, 4 sensors payload comprises:

- 3rd Generation, 3-5 µm FPA FLIR
- Color or B/W TV Camera
- Eyesafe Laser Rangefinder or Diode Pumped Advanced Designator
- Laser Target Illuminator

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